

**Montera, Jeff**

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**From:** Montera, Jeff  
**Sent:** Wednesday, July 26, 2006 1:44 PM  
**To:** 'cohn.matthew@epamail.epa.gov'; Churchill.Peggy@epamail.epa.gov;  
'Atencio.Kathie@epamail.epa.gov'  
**Subject:** Libby Completion Folders  
**Attachments:** Bowers.zip; Ranaldi.zip

Matt -

Peggy Churchill requested that I send an email to you regarding Libby completion folders. My understanding is that we are trying to get a subset of information, for every property in Libby that has undergone a removal, into EPA's official site file. While Peggy was up in Libby two weeks ago, we discussed what items would be pertinent for these files. That draft list of items is provided below:

1. removal and restoration agreement (for pre-2004 properties)
2. removal action work plan (RAWP) addendum (for 2004 - current properties)
3. site drawings, where applicable
4. any work plan amendments
5. completion form

I've attached examples for two properties:

- Bowers-33 Glendora Avenue (RAWP, 3 drawings, amendment, completion form)
- Ranaldi- 3399 Highway 2 South (RAWP, 3 drawings, amendment, completion form)

Both properties underwent indoor and outdoor removals, and both were completed this year.

Should you need any further assistance with this exercise prior to Peggy's return, please feel free to contact me.

Regards,  
Jeff

**Jeff Montera, PMP**

Principal

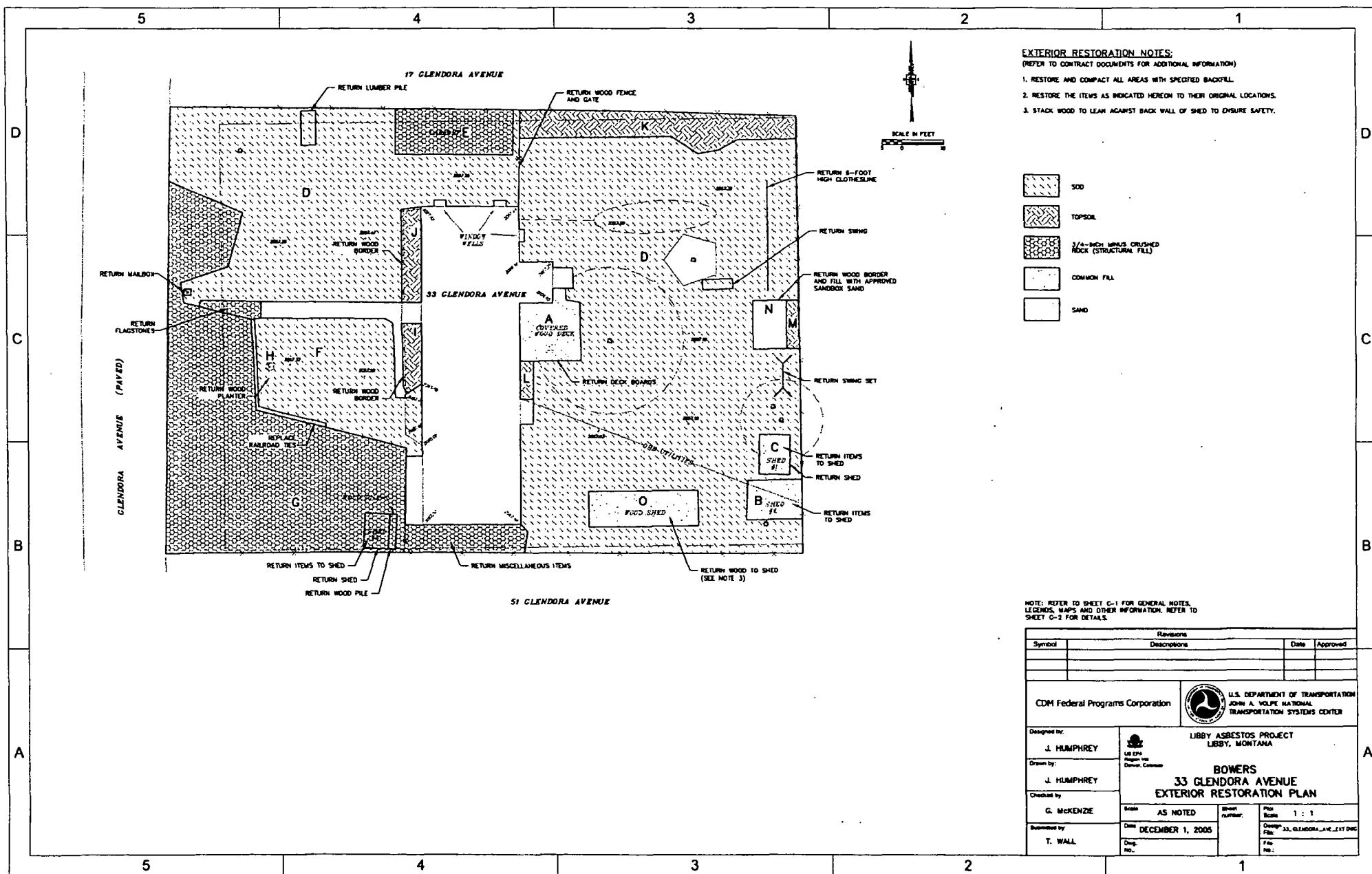
**CDM | consulting · engineering · construction · operations**

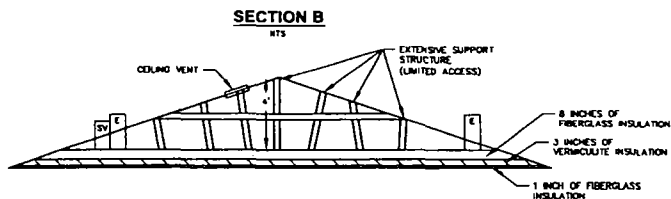
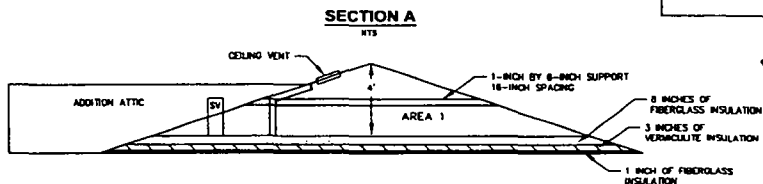
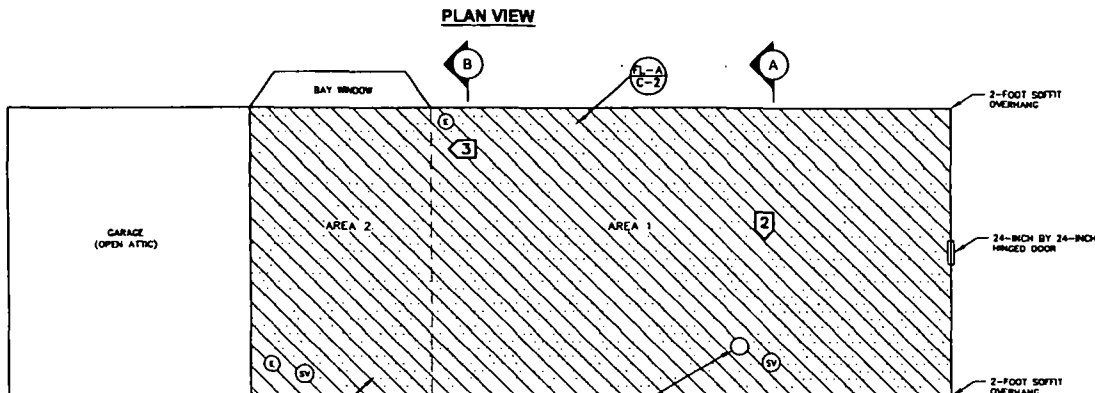
1331 17th Street, Suite 1100 | Denver, CO | 80202

Phone: 720.264.1116 | Cell: 720.273.7909 | Fax: 303.295.1895 | Email: [monteraig@cdm.com](mailto:monteraig@cdm.com)

9/5/2006







1 NORTH EXTERIOR OF HOUSE AND ATTIC ACCESS

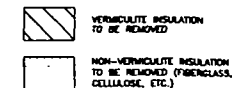
2 AREA 1 VENTS

3 AREA 2 SUPPORT STRUCTURE

# **INTERIOR REMEDIATION NOTES:**

(REFER TO CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION)

1. ENSURE AN 18-INCH BY 18-INCH OR EQUIVALENT AREA IS MAINTAINED AT THE ATTIC ACCESS, FREE OF OBSTACLES, FOR THE INGRESS AND EGRESS OF PERSONNEL.
2. REMOVE, TRANSPORT, AND DISPOSE OF ALL INSULATION FROM THE ATTIC. THE ESTIMATED VOLUME OF INSULATION DOES NOT INCLUDE ANY VERMICULITE INSULATION THAT MAY BE REMOVED FROM THE GROUND FLOOR WALLS.
3. REMOVE A SUFFICIENT QUANTITY OF VERMICULITE INSULATION FROM EXTERIOR WALLS IN ORDER TO SEAL THE WALLS.
4. INSTALL BLOWN-IN INSULATION IN AREAS 1 AND 2, AND RESTORE ALL AFFECTED ATTIC AREAS. THE INSTALLED INSULATION WILL HAVE A MINIMUM RATING OF R-38.
5. INSPECT ALL SEAMS, CAPS, CONDUITS, AND ELECTRICAL FIXTURES ON THE GROUND AND BASEMENT FLOORS FOR VERMICULITE INSULATION. ANY AREAS CONTAINING VERMICULITE INSULATION WILL BE CLEANED AND SEALED.
6. PERFORM AN INTERIOR CLEANING OF THE BASEMENT.



INSULATION QUANTITIES				
AREA DESIGNATION	INSULATION TYPE	AREA (sq ft)	DEPTH (in.)	VOLUME (cu ft)
1	FIBERGLASS	1632	1	3
	VERMICULITE	1632	3	16
	FIBERGLASS	1632	8	25
2	FIBERGLASS	360	1	1
	VERMICULITE	360	3	3
	FIBERGLASS	360	8	9
TOTAL				51

NOTE: REFER TO SHEET C-1 FOR GENERAL NOTES, LEGENDS, MAPS AND OTHER INFORMATION. REFER TO SHEET C-2 FOR DETAILS.

Revisions			
Symbol	Descriptions	Date	Approved
CDM Federal Programs Corporation		U.S. DEPARTMENT OF TRANSPORTATION JOHN A. VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER	
Designed by	J. HUMPHREY	LIBBY ASBESTOS PROJECT LIBBY, MONTANA	
Drawn by	M. KUZMAK	<b>BOWERS</b> 33 GLENDORA AVENUE INTERIOR REMEDIATION PLAN	
Checked by	G. MCKENZIE	Scale	AS NOTED
Submitted by	T. WALL	Date	DECEMBER 1, 2005
		Sheet number	1 of 1
		Change File	33-GLENDORA-INT-RTS-2005

## **Amendment 1**

### **Bowers Response Action Work Plan Addendum 33 Glendora Avenue**

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#### **A.1 Introduction**

This amendment supplements the property-specific Response Action Work Plan (RAWP) addendum. Changes described in this amendment supersede work outlined in the RAWP addendum and the Contract Drawing(s). All other removal activities will be performed in accordance with the Contract Documents and the RAWP addendum for this property.

#### **A.2 Exterior**

The changes to the Exterior Remediation/Restoration Plan are as follows:

- The wood fence and gate in Area D on the northeast side of the house will be protected during removal and restoration activities.
- Remove and dispose of deck lumber as necessary to remove contaminated soils in Area A. Deck boards supporting the awning will be protected during removal activity. Replace all disposed lumber in kind and return deck.
- Protect the well below the deck during removal and restoration activities.

#### **A.3 Interior**

The changes to the Interior Remediation Plan are as follows:

- Remove and dispose of all ceiling tiles and screen in the basement, approximately 240 ft<sup>2</sup>. The area above the tiles will be included in the interior cleaning of the basement. Replace all ceiling tiles and screen in kind.

# **Addendum to the Response Action Work Plan Bowers Residential Removal Plan 33 Glendora Avenue**

## **1.0 Introduction**

This addendum to the Response Action Work Plan (RAWP) (CDM Federal Programs Corporation [CDM] 2003) includes property-specific characterization data. Specific remedial activities to be performed at this property are detailed on the following Contract Drawings:

- Bowers 33 Glendora Avenue Exterior Remediation Plan
- Bowers 33 Glendora Avenue Exterior Restoration Plan
- Bowers 33 Glendora Avenue Interior Remediation Plan

Removal and restoration activities will be conducted in accordance with the RAWP, this RAWP Addendum, and the Design Specifications for Residential Removals (U.S. Department of Transportation John A. Volpe National Transportation Systems Center [Volpe] 2004), forthwith referred to as the Contract Documents. All project quality assurance and quality control requirements for measurement reports will be addressed in a future data summary report.

## **2.0 General Information**

- The excavation limits for Areas D, E, G, and K will extend beyond the computed boundary and up to the 6½-foot high wood fence. The government representative will coordinate this activity with the neighboring property owners at 17 Glendora Avenue and 51 Glendora Avenue.
- The removal contractor will provide the water source for personnel and equipment decontamination. Decontamination water will be captured and disposed of properly.
- The electricity to the house will be turned off as needed for construction and a generator will be used to supply electricity to the following equipment that must remain powered during remedial activities:
  - a. Refrigerator located in the kitchen
  - b. Three freezers located in the garage
  - c. Answering machine located in the living room
  - d. Well breaker that also services the neighbor's house.

- The electricity will be restored to the house when the restoration activities are complete.
- Only government-authorized personnel will be permitted on site during the removal and restoration activities. As stated in the relocation package, for public safety, the resident will not be allowed to return to their property unless given permission or accompanied by a government representative. If the resident returns to their property without prior approval, their relocation agreement with the government will be nullified and per diem and hotel costs will not be paid. If an emergency arises and the resident requires items from inside the house (medication, etc.) they should contact their Community Involvement Coordinator at 293-8595 during business hours, or the Team Leader at 291-1460 after hours for arrangements to be made to retrieve the item.
- CDM staff will water indoor plants weekly until the resident is allowed to return to the property.
- Some doors may be left unlocked and some windows may be left open as part of the removal activities; therefore, security will be provided whenever the removal contractor is not working. When the removal activities are complete, the windows and doors will be locked and additional security will not be provided. CDM will be responsible for the key to the property until removal and restoration activities are complete, at which time the key will be returned to the resident.
- The landscaping contractor will water restored plants, sod, and/or hydroseed at the time of planting and over the following two business days. It will then become the resident's responsibility to maintain these areas.
- If the owner or resident has questions or concerns, he or she should contact the Community Involvement Coordinator at 293-8595.

### **3.0 Background Information**

This section includes property information that was obtained from various investigations and sampling activities performed by CDM.

#### **3.1 Exterior:**

- Vermiculite was observed in the flowerbeds and gardens. Gross quantities of vermiculite were observed in the yard east and southwest of the house.
- Vermiculite was not observed in the pentagonal flower bed; however, this area was sampled and was non-detect for Libby amphibole (LA) asbestos.
- Eight soil samples were used to characterize the property and design this removal action plan. Three of these samples were collected during the contaminant screening study from the east yard, flowerbeds, and southwest driveway. The analytical result for the southwest driveway revealed 2% LA asbestos. The analytical result for the yard east of the house revealed trace LA asbestos, while the

flowerbed sample was non-detect for LA asbestos. Five samples were collected during the pre-design inspection to delineate contamination from the north and northwest yard, walkway, northwest driveway, and under the deck. Analytical results for the samples collected from the walkway, northwest driveway, and under the deck revealed <1% LA asbestos, while the yard north and northwest of the house revealed trace LA asbestos.

### **3.2 Interior:**

- The house has an unfinished attic (Areas 1 and 2) with an addition on the east side. Areas 1 and 2 are accessed by a 24-inch by 24-inch hinged door on the north exterior wall of the house. The addition on the east side is not accessible from the main attic, contains no visible vermiculite insulation, and has a separate airspace from the main attic.
- Areas 1 and 2 have no flooring above the joists and are both insulated with 1 inch of fiberglass batt insulation, overlain by 3 inches of vermiculite insulation, and an 8-inch layer of blown-in fiberglass insulation. Area 2 is delineated by the extensive support structures in the south section of the main attic, offering limited access.
- Vermiculite insulation was observed in the exterior walls and in the basement along the exterior walls.
- Vermiculite insulation was not observed in the interior walls, ground floor living spaces, or attached garage.
- Four dust samples were collected to characterize the ground floor, basement, and attached garage. Analytical results for all dust samples were non-detect for LA asbestos.
- Two dust samples were collected within shed #1 and shed #3 on the property. Analytical results for both dust samples were non-detect for LA asbestos.

A property survey was completed to document existing conditions. The survey includes property boundaries, site features, and site topography, and is used as a base map for the Contract Drawings. The surveyed drawing was combined with the Exterior Inspection Checklist and Supplemental Interior Inspection Checklist sketches that were completed during the pre-design inspection.

### **4.0 References**

CDM 2003. Response Action Work Plan, U.S. Environmental Protection Agency (EPA) Libby Asbestos Project, Libby, Montana. Prepared for EPA by Volpe and CDM. November.

Volpe 2004. Design Specifications for Residential Removals, EPA Libby Asbestos Project, Libby, Montana. Prepared in conjunction with CDM. April.



I acknowledge that I have received a copy of the Work Plan Addendum for the property located at the address stated for review and comment.

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Date



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### REGION 8

999 18<sup>TH</sup> STREET - SUITE 300

DENVER, CO 80202-2466

Phone 800-227-8917

<http://www.epa.gov/region08>

July 17, 2006

Ref: 8EPR-SR

Hilton Bowers  
33 Glendora Avenue  
Libby, MT 59923

RE: EPA Cleanup at 33 Glendora Avenue, Libby, Montana 59923

The U.S. Environmental Protection Agency (EPA) has completed a cleanup under emergency response authority at the property referenced above. The cleanup was conducted pursuant to the Action Memorandum Amendment dated May 9, 2002 for the Libby Asbestos Site. A copy of the Removal and Restoration Completion Form for this property is enclosed for reference and details the specific actions that were taken. There is no financial liability to the property owner or renter of this property, either current or future.

Visual inspections were conducted and confirmation samples were collected after the cleanup to ensure that cleanup standards were achieved. Sampling typically includes interior air samples of the buildings and/or samples of outdoor soils in areas of concern. Analysis of samples for this property showed that Libby amphibole asbestos was not detected, or was detected at levels below EPA's current level of concern. The property meets EPA's current standards for protectiveness of human health for Libby amphibole asbestos contamination set forth in EPA's Action Level and Clearance Criteria Technical Memorandum (December 15, 2003) for the Libby Asbestos Site.

In most circumstances vermiculite or Libby asbestos-containing soil or materials were removed. EPA may have chosen to leave these materials in place if they were located in inaccessible areas and not likely to be disturbed. These areas typically include spaces within walls, below carpets, outdoor soils below hard, improved surfaces such as driveways or foundations, or outdoor soils deeper than twelve to eighteen inches. In most cases, EPA did not inspect or sample in such areas. If you plan to disturb, or accidentally encounter, vermiculite or Libby asbestos containing materials, you should read and follow EPA guidance. This guidance can be obtained at the EPA Information Center at 501 Mineral Ave. in Libby. A database documenting areas where contamination was left in place will be maintained by EPA.

Very low, often immeasurable, levels of Libby asbestos may remain in soil, indoor dust, fabrics, upholstery, and carpets. Current EPA risk assessments suggest that these circumstances do not pose a significant health risk. However, residents can further protect themselves by taking simple precautions found in EPA guidance, including the use of HEPA-filter equipped vacuum cleaners. EPA will provide each property owner a HEPA vacuum upon completion of cleanup.

EPA's investigations and cleanup addressed amphibole asbestos that is related to the former Libby vermiculite mine and did not address other types of asbestos. There are several potential asbestos-containing materials commonly found in older homes across the country. This letter makes no statement or inferences regarding these materials.

At this time, EPA considers cleanup of this property complete and does not anticipate that additional cleanup measures will be required. However, EPA and others continue to investigate the health effects of Libby asbestos. Cleanup levels and approaches may be adjusted in the future as new information and data becomes available. EPA has not yet set final cleanup levels for the Libby Asbestos Site. This will occur when EPA publishes a final Record of Decision. If this results in a need for additional sampling or cleanup at this property, the property owner will be contacted. Again, the likelihood of this occurring is low.

EPA appreciates your assistance with our work. Please keep this letter with your important papers for future reference. A copy should be passed to the new property owner if the property is sold. If you have any questions, please contact the EPA Information Center at (406) 293-6194 or the Lincoln County Department of Environmental Health at (406) 293-7781.

Sincerely,

A handwritten signature in cursive script that reads "Peggy Churchill".

Peggy Churchill  
Remedial Project Manager

# **Removal and Restoration Completion Form for Response Action at**

**Bowers Property  
33 Glendora Avenue  
Libby, Montana**

Between May 4, 2006 and May 25, 2006, removal and restoration activities took place at 33 Glendora Avenue (Bowers property). Activities were conducted in accordance with the Response Action Work Plan (RAWP) (CDM Federal Programs Corporation [CDM] 2003) and the design specifications (U.S. Department of Transportation, John A. Volpe National Transportation Systems Center [Volpe] 2004), forthwith referred to as the Contract Documents. This Removal and Restoration Completion Form summarizes cleanup activities that took place at the property.

## **1.0 Removal and Restoration Activities**

### **1.1 Exterior**

Soil was removed from beneath the three sheds in the southeast yard, beneath the deck, beneath the carport, from the entire yard, the gravel driveway area west of the house, the flowerbeds and the sandbox. These areas were restored in accordance with the Contract Documents. Confirmation soil samples were collected from these areas to verify the contamination was removed to the depth required. However, asbestos-containing soil remains at a depth of 12 to 14 inches below ground surface in the north and east yard areas and beneath the deck, and at a depth of 18 to 20 inches below ground surface in the central portion of the east yard, in the flowerbed south of the deck and in the northeast flowerbed. These areas were covered with materials in order to minimize the potential for human exposure. The U.S. Environmental Protection Agency (EPA) strongly recommends that they be left alone and not disturbed. Should the at-depth material be exposed or disturbed in the future, the property owner is encouraged to refer to EPA's guidance, which is included in the information packet provided to the property owner. These publications are also available at the EPA Information Center (501 Mineral Avenue) and online at <http://www.epa.gov/Region8/superfund/libby/updates.html>.

### **1.2 Interior**

#### **Vermiculite-containing Insulation Removal**

Vermiculite-containing insulation was removed from the attic space. Following the removal, the attic space was inspected and air clearance samples were collected to confirm the area was cleaned to standards established by EPA. The removed insulation was replaced unless otherwise stated in the Contract Documents.

#### **Interior Cleaning**

Based on visual inspection, an interior cleaning was conducted in the basement. Following the interior cleaning, the interior space was inspected and air clearance samples were collected to confirm the area was cleaned to standards established by EPA.

## Vermiculite-containing Wall Insulation

Vermiculite-containing insulation remains in the exterior walls of the residence. Existing openings in these areas were sealed to prevent leakage. EPA strongly recommends that the material be left alone and not disturbed. Should it be necessary to access the areas containing the vermiculite in the future (such as during renovation), the property owner is encouraged to refer to EPA's guidance, which is included in the information packet provided to the property owner. These publications are also available at the EPA Information Center (501 Mineral Avenue) and online at <http://www.epa.gov/Region8/superfund/libby/updates.html>.

## 2.0 References

CDM 2003. Response Action Work Plan, EPA Libby Asbestos Project, Libby, Montana. Prepared for U.S. EPA Region VIII by U.S. Department of Transportation John A. Volpe National Transportation Systems Center and CDM. November.

Volpe 2004. Design Specifications for Residential Removals, EPA Libby Asbestos Project, Libby, Montana. Prepared in conjunction with CDM. April.

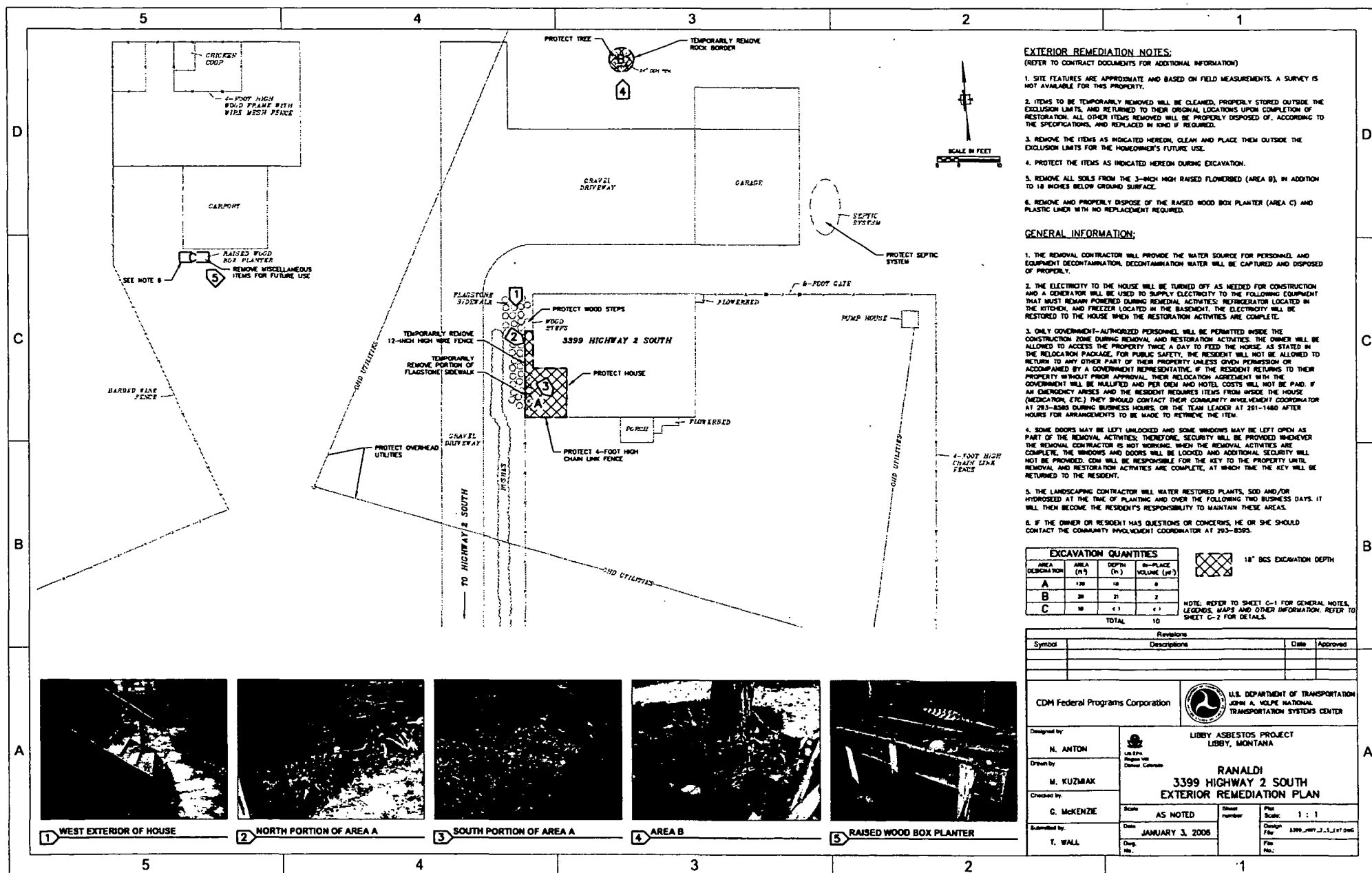
I acknowledge that I have received a copy of the RAWP for the property. Removal and restoration activities were discussed and agreed to prior to cleanup. I have also received a high efficiency particulate air vacuum and training on its correct use. The vacuum shall remain at the property even if the property is sold.

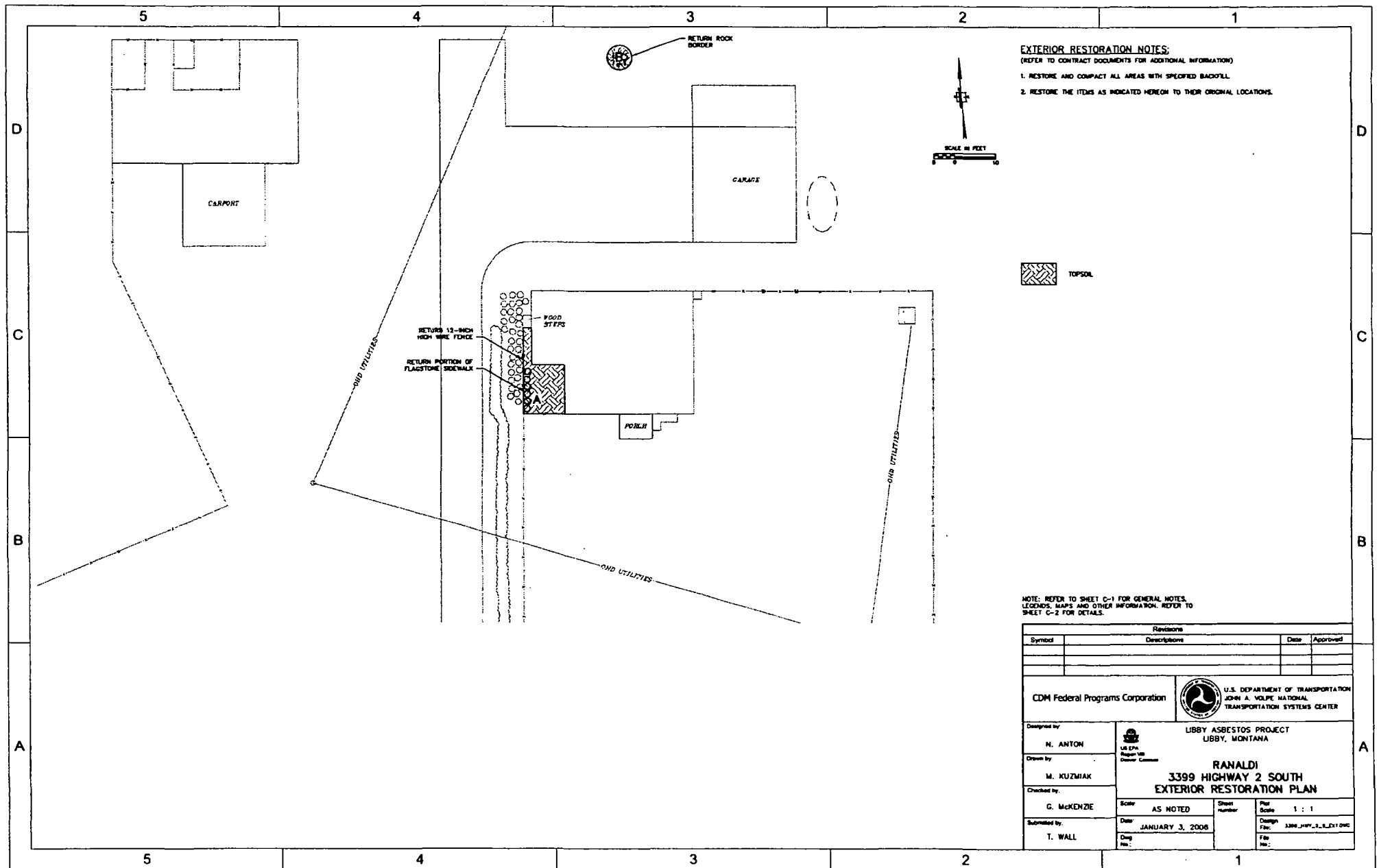
\_\_\_\_\_  
Owner

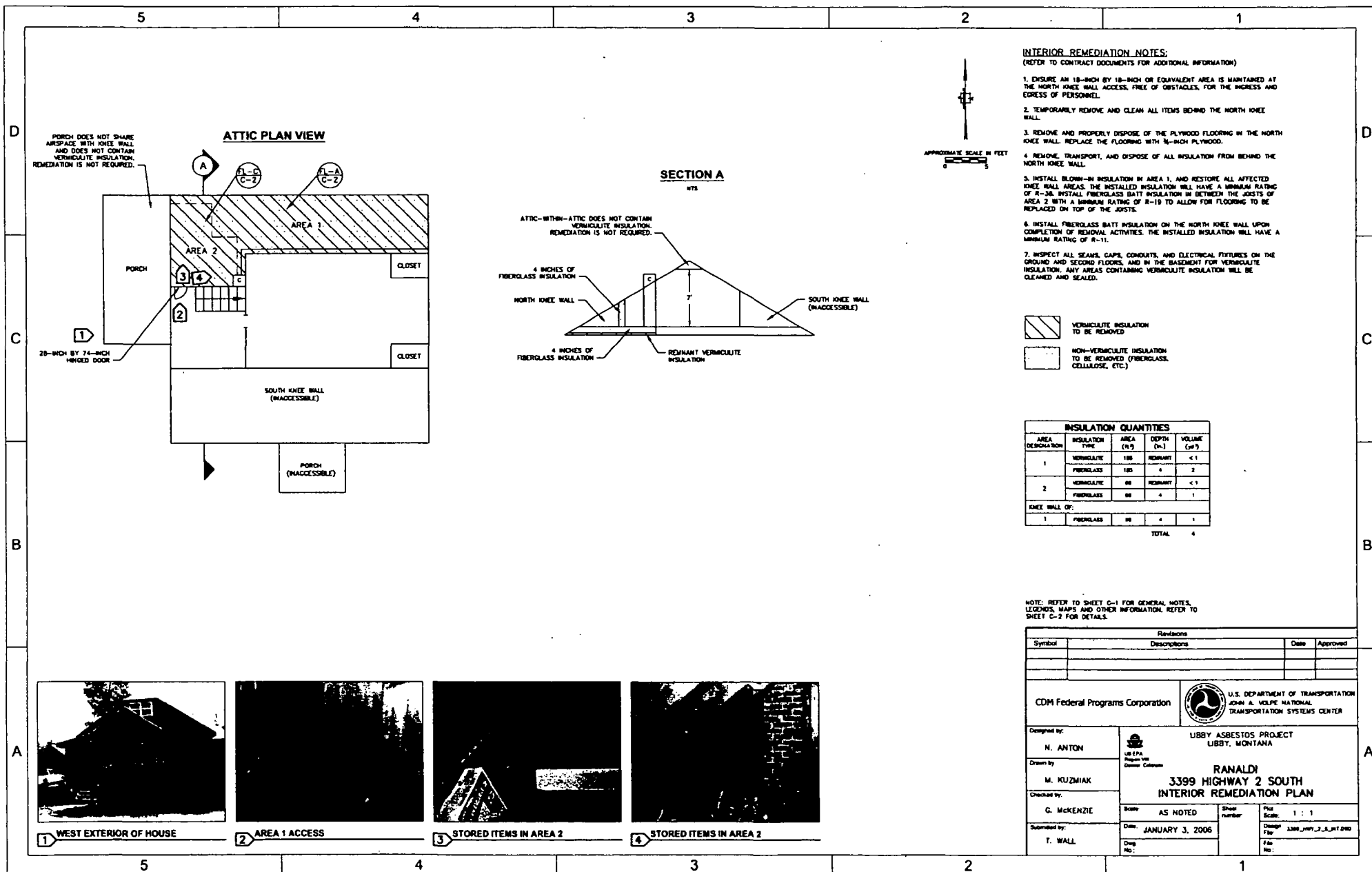
\_\_\_\_\_  
Date

\_\_\_\_\_  
Tenant

\_\_\_\_\_  
Date











## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18<sup>TH</sup> STREET - SUITE 300

DENVER, CO 80202-2466

Phone 800-227-8917

<http://www.epa.gov/region08>

July 17, 2006

Ref: 8EPR-SR

Marc Ranaldi

3399 Highway 2 South

Libby, MT 59923

RE: EPA Cleanup at 3399 Highway 2 South, Libby, Montana 59923

The U.S. Environmental Protection Agency (EPA) has completed a cleanup under emergency response authority at the property referenced above. The cleanup was conducted pursuant to the Action Memorandum Amendment dated May 9, 2002 for the Libby Asbestos Site. A copy of the Removal and Restoration Completion Form for this property is enclosed for reference and details the specific actions that were taken. There is no financial liability to the property owner or renter of this property, either current or future.

Visual inspections were conducted and confirmation samples were collected after the cleanup to ensure that cleanup standards were achieved. Sampling typically includes interior air samples of the buildings and/or samples of outdoor soils in areas of concern. Analysis of samples for this property showed that Libby amphibole asbestos was not detected, or was detected at levels below EPA's current level of concern. The property meets EPA's current standards for protectiveness of human health for Libby amphibole asbestos contamination set forth in EPA's Action Level and Clearance Criteria Technical Memorandum (December 15, 2003) for the Libby Asbestos Site.

In most circumstances vermiculite or Libby asbestos-containing soil or materials were removed. EPA may have chosen to leave these materials in place if they were located in inaccessible areas and not likely to be disturbed. These areas typically include spaces within walls, below carpets, outdoor soils below hard, improved surfaces such as driveways or foundations, or outdoor soils deeper than twelve to eighteen inches. In most cases, EPA did not inspect or sample in such areas. If you plan to disturb, or accidentally encounter, vermiculite or Libby asbestos containing materials, you should read and follow EPA guidance. This guidance can be obtained at the EPA Information Center at 501 Mineral Ave. in Libby. A database documenting areas where contamination was left in place will be maintained by EPA.

Very low, often immeasurable, levels of Libby asbestos may remain in soil, indoor dust, fabrics, upholstery, and carpets. Current EPA risk assessments suggest that these circumstances do not pose a significant health risk. However, residents can further protect themselves by taking simple precautions found in EPA guidance, including the use of HEPA-filter equipped vacuum cleaners. EPA will provide each property owner a HEPA vacuum upon completion of cleanup.

EPA's investigations and cleanup addressed amphibole asbestos that is related to the former Libby vermiculite mine and did not address other types of asbestos. There are several potential asbestos-containing materials commonly found in older homes across the country. This letter makes no statement or inferences regarding these materials.

At this time, EPA considers cleanup of this property complete and does not anticipate that additional cleanup measures will be required. However, EPA and others continue to investigate the health effects of Libby asbestos. Cleanup levels and approaches may be adjusted in the future as new information and data becomes available. EPA has not yet set final cleanup levels for the Libby Asbestos Site. This will occur when EPA publishes a final Record of Decision. If this results in a need for additional sampling or cleanup at this property, the property owner will be contacted. Again, the likelihood of this occurring is low.

EPA appreciates your assistance with our work. Please keep this letter with your important papers for future reference. A copy should be passed to the new property owner if the property is sold. If you have any questions, please contact the EPA Information Center at (406) 293-6194 or the Lincoln County Department of Environmental Health at (406) 293-7781.

Sincerely,

A handwritten signature in cursive script that reads "Peggy Churchill".

Peggy Churchill  
Remedial Project Manager

**Removal and Restoration Completion Form  
for Response Action at  
Ranaldi Property  
3399 Highway 2 South  
Libby, Montana**

Between April 25, 2006 and May 1, 2006 removal and restoration activities took place at 3399 Highway 2 South (Ranaldi property). Activities were conducted in accordance with the Response Action Work Plan (RAWP) (CDM Federal Programs Corporation [CDM] 2003) and the design specifications (U.S. Department of Transportation, John A. Volpe National Transportation Systems Center [Volpe] 2004), forthwith referred to as the Contract Documents. This Removal and Restoration Completion Form summarizes cleanup activities that took place at the property.

## **1.0 Removal and Restoration Activities**

### **1.1 Exterior**

Soil was removed from the raised wood box planter south of the carport, and from the flowerbed in the north yard and the southwest side of the house. These areas were restored in accordance with the Contract Documents for the property. Confirmation soil samples were collected from these areas to verify the contamination was removed to standards established by the U.S. Environmental Protection Agency (EPA).

### **1.2 Interior**

#### **Vermiculite-containing Insulation Removal**

Vermiculite-containing insulation was removed from the attic space. Following the removal, the attic space was inspected and air clearance samples were collected to confirm the area was cleaned to standards established by EPA. The removed insulation was replaced unless otherwise stated in the Contract Documents.

#### **Interior Cleaning**

Based on visual inspection and dust sample results, an interior cleaning was not warranted at this property.

## **2.0 References**

CDM 2003. Response Action Work Plan, EPA Libby Asbestos Project, Libby, Montana. Prepared for U.S. EPA Region VIII by U.S. Department of Transportation John A. Volpe National Transportation Systems Center and CDM. November.

Volpe 2004. Design Specifications for Residential Removals, EPA Libby Asbestos Project, Libby, Montana. Prepared in conjunction with CDM. April.

I acknowledge that I have received a copy of the RAWP for the property. Removal and restoration activities were discussed and agreed to prior to cleanup. I have also received a high efficiency particulate air vacuum and training on its correct use. The vacuum shall remain at the property even if the property is sold.

\_\_\_\_\_  
Owner

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tenant

\_\_\_\_\_  
Date

# **Addendum to the Response Action Work Plan Ranaldi Residential Removal Plan 3399 Highway 2 South**

## **1.0 Introduction**

This addendum to the Response Action Work Plan (RAWP) (CDM Federal Programs Corporation [CDM] 2003) includes property-specific characterization data. Specific remedial activities to be performed at this property are detailed on the following Contract Drawings:

- Ranaldi 3399 Highway 2 South Exterior Remediation Plan
- Ranaldi 3399 Highway 2 South Exterior Restoration Plan
- Ranaldi 3399 Highway 2 South Interior Remediation Plan

Removal and restoration activities will be conducted in accordance with the RAWP, this RAWP Addendum, and the Design Specifications for Residential Removals (U.S. Department of Transportation John A. Volpe National Transportation Systems Center [Volpe] 2004), forthwith referred to as the Contract Documents. All project quality assurance and quality control requirements for measurement reports will be addressed in a future data summary report.

## **2.0 General Information**

- The removal contractor will provide the water source for personnel and equipment decontamination. Decontamination water will be captured and disposed of properly.
- The electricity to the house will be turned off as needed for construction and a generator will be used to supply electricity to the following equipment that must remain powered during remedial activities:
  - a. Refrigerator located in the kitchen
  - b. Freezer located in the basement
- The electricity will be restored to the house when the restoration activities are complete.
- Only government-authorized personnel will be permitted inside the construction zone during removal and restoration activities. The owner will be allowed to access the property twice a day to feed the horse. As stated in the relocation package, for public safety, the owner will not be allowed to return to any other part of their property unless given permission or accompanied by a government representative.

If the resident returns to their property without prior approval, their relocation agreement with the government will be nullified and per diem and hotel costs will not be paid. If an emergency arises and the resident requires items from inside the house (medication, etc.) they should contact their Community Involvement Coordinator at 293-8595 during business hours, or the Team Leader at 291-1460 after hours for arrangements to be made to retrieve the item.

- Some doors may be left unlocked and some windows may be left open as part of the removal activities; therefore, security will be provided whenever the removal contractor is not working. When the removal activities are complete, the windows and doors will be locked and additional security will not be provided. CDM will be responsible for the key to the property until removal and restoration activities are complete, at which time the key will be returned to the resident.
- The landscaping contractor will water restored plants, sod, and/or hydroseed at the time of planting and over the following two business days. It will then become the resident's responsibility to maintain these areas.
- If the owner or resident has questions or concerns, he or she should contact the Community Involvement Coordinator at 293-8595.

### **3.0 Background Information**

This section includes property information that was obtained from various investigations and sampling activities performed by CDM.

#### **3.1 Exterior:**

- Vermiculite was observed in the flowerbeds on the west side of the house and in the north yard, and in the planter in the northwest yard.
- Vermiculite was observed in the northwest yard and chicken coop area, and in the yard on the north and west sides of the house; however, these areas were sampled and were non-detect for Libby amphibole (LA) asbestos.
- Vermiculite was not observed in the flowerbeds south and northeast of the house. These areas were sampled and were non-detect for LA asbestos.
- In total, twelve soil samples were collected from the following areas: yard, flowerbeds, field, chicken coop, and driveway. Analytical results for all samples were non-detect for LA asbestos.

#### **3.2 Interior:**

- The house has a finished attic (second floor) with north and south knee walls, porches on the west and south sides, and an attic-within-attic. There are two areas behind the north knee wall (Areas 1 and 2). Area 1 has no flooring above the joists, while Area 2 has plywood flooring above the joists.

- Areas 1 and 2 are each accessed by a 74-inch by 28-inch hinged door. Area 1 is insulated with 4 inches of fiberglass batt insulation and remnant vermiculite insulation. Area 2 is also insulated with 4 inches of fiberglass batt insulation and remnant vermiculite insulation beneath the plywood flooring. The porch on the west side contains no vermiculite insulation and has a separate airspace from the area behind the north knee wall. The area behind the south knee wall and the attic of the south porch are inaccessible. The attic-within-attic does contain vermiculite insulation.
- Household items are stored behind the north knee wall, in contact with vermiculite insulation. Refer to the Interior Remediation Plan for photo documentation of attic contents.
- Vermiculite insulation was not observed in the interior or exterior walls, detached garage, ground floor or second floor living spaces, or in the basement.
- Five dust samples were collected to characterize the ground floor, second floor, and basement. Analytical results for all dust samples were non-detect for LA asbestos.
- One dust sample was collected within the detached garage on the property. The analytical result for this dust sample was non-detect for LA asbestos.

The Contract Drawings detail the areas to be remediated. This information was obtained from the Exterior Inspection Checklist (EIC) and the Supplemental Interior Inspection Checklist (SIIC) that were completed during the pre-design inspection. Note that the EIC and SIIC sketches are approximate and are considered field notes.

## **4.0 Summary of Removal Activities**

Removal activities at this property will consist of both exterior and interior remediation. Soils will be excavated from flowerbeds on the southwest side of the house and in the north yard. A raised wood box planter will also be removed and discarded. The limits of excavation, excavation depth, and items to be protected or removed are shown on the Exterior Remediation Plan. All excavated areas will be restored with specified backfill, and all items will be returned to their original locations or replaced in kind.

Vermiculite and fiberglass insulation will be removed from the attic. Areas of the attic where insulation was removed will be reinsulated and restored to their original conditions. Any outlets, conduits, gaps, etc. found to contain vermiculite insulation will be cleaned and sealed.

## 5.0 References

CDM 2003. Response Action Work Plan, U.S. Environmental Protection Agency (EPA) Libby Asbestos Project, Libby, Montana. Prepared for EPA by Volpe and CDM. November.

Volpe 2004. Design Specifications for Residential Removals, EPA Libby Asbestos Project, Libby, Montana. Prepared in conjunction with CDM. April.

I acknowledge that I have received a copy of the Work Plan Addendum for the property located at the address stated for review and comment.

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Owner

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Date